Nearly every weekend from mid-February to mid-No-vember, 100,000 die-hard fans get in their cars and crawl through gridlock to watch their favorite NASCAR drivers bump and grind their way through a 43-car field at 180mph. Some weeks, these loyal fans, who travel to racetracks from New Hampt's been called the fastest growing sport in America. make up the largest gathering of human beings shire to California and 21 stops in between,

track in t-shirts sporting the numbers and likenesses of their favorite NASCAR drivers. In the infield and just outside the track's recognizable names: Jeff Gordon, Dale Earnhardt Jr., and Dale Jarrett. multimillion-dollar Kansas Speedway in Kansas City, Kan., the faithful proudly circled the On Sunday, Sept. 30, at the brand-new, and far flew the colors of the circuit's most thick, concrete walls, RVs from states near

For those who can't make it to the track tice sessions, nearly all of the on-track events that precede NASCAR's weekly Winston Cup races are broadcast and analyzed in multi-NASCAR drivers do these days is televised. From qualifying rounds to "happy hour" practhere is always the TV. It seems everything

On the last Sunday in September, this task fell to NBC, which began broadcasting races this year as part of a new six-year agreement with NASCAR, the governing body for the Winston Cup circuit. According to the agreement, NBC and its cable partner, TNT, have broadcast rights to the second half of each NASCAR season

for the next six years. Meanwhile FOX and its cable partner, FX Nework, have rights to the first half of each season, and FOX and NBC will alternate coverage of the Daytona 500, NASCAR's premier event.

partnership is that the networks share a unique production look and style for their NASCAR broadcasts, which are produced by the same staff and talent, no matter which This new contract means more growth and exposure for NASCAR. It also means FOX and NBC, which have never up to speed in a hurry. For its part, NBC teamed up with Turner Sports' TNT cable network, a long-time broadcaster of NASCAR races. Through this one-of-a-kind partsplitting production costs 50-50. One of the results of the nership, the two networks operate as equal partners, been huge players in motorsports broadcasting, had to ge

network carries the broadcast.

The NBC/TNT production crew is directed by Mike sport, and built the way it is seen today, says Sam Flood, Wells producer for the NBC/TNT broadcasts. Now we are giving him all of these extra toys to play with. thing you could experience from a director's chair in this Wells, a 20-year veteran of motorsports broadcasts, many of them with ESPN. "Mike has experienced almost every

in various configurations, depending on the week's track design. At the Kansas Speedway, six Sony BVP-900s on track-side scaffolds and roof platforms capture traditional. cameras, 10 robotic cameras, including four Sony BVP-950s mounted on the outside racewall, capture the cars These toys include approximately 35 cameras, mounted speeding by. (For a more complete look at the cameras wide racing angles. Another four wireless Sony RF handheld cameras deliver live reports from the pit and garage areas. In addition to these manually operated

Cody Holt is managing editor of Video Systems.

# The NBC/TNT NASCAR crew was in high gear for the inaugural Winston Cup.

event at the new Kansas Speedwa

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Photo by Sam Sharpe, The Sharpe Image, Cornelius, N.C.

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eras capturing the action around the track, each week trol camera sits just behind stick cameras mounted to bumpers. All of the cameras transmit digital images to a then camera truck, and ultitrolled by four operators in 10 Winston Cup cars carry three in-car cameras each. A 360-degree remote-conthe right shoulder of the drivers, with additional lipthe cars' roofs and rear helicopter hovering above the track, which then bounces them to an in-car cast truck via Triax. Broadcast Sports Technology installs and maintains these cameras, which are con-In addition to the cammately to the main broad-

tual first-down line used in football broadcasts. Sportglobal positioning system GPS) satellites to track and collect realtime location mated graphics that NBC and TNT call the "Virtual Garage.\* These animations mon racing terms. (For more on Sportvision's houses a crew from Sportvision, the company that per second from each car on the track. The Sportvision Vision in Sports. page 42.) vision's Racef/x system uses mance data several times tual Garage, see \*A New invented the 1st & Ten virinformation and car perfor Racef/x system and the Vircrew has also produced ani are used to illustrate con

the mics are mounted on the track walls in stereo pairs, and each camera — with the exception of the incast truck, audio teams mix and manage effects. Since the rumble of the engines is such an important part of NASCAR, each broadcast employs approximately 90 microphones. About 18 of In a fifth and final broad-

employed by the production | car cameras — carries two crew at Kansas Speedway. | microphones. The crew in see 'Around the Track,' this | the audio truck also monitors the radio communications among the 43 competing race teams and their tions are sometimes added to give a unique, inside-thehelmet perspective to the broadcasts. The audio to two high-end Avid editing systems, where artists bumpers and feature segcreate graphic-intensive drivers. These conversa broadcast truck is also home

cate with the 200 or so people involved with each and all of the technology piped into the truck, his job The entire production comes together in the main broadcast truck, where Wells and Flood communiincluding the three anin the broadcast booth. Wells says with all of the action circling the track keeps him on the edge of his seat. But he always stays focused on his main goal: weekly NASCAR telecast

A fourth broadcast truck

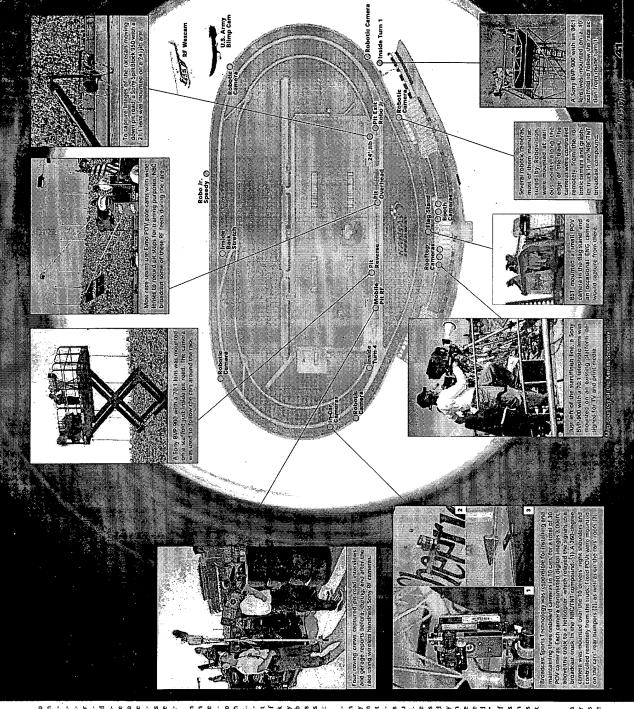
the in-car camera truck.

ries going on out there on the track, my job is simply as I can," he says. "It's a lot ball sports, where there's one main focal point. You can't just follow the ball. Plus there's never a true win or lose a race in the There are so many stoto capture as many of them different than stick-andbreak in the action unless there's a yellow flag, and even then you'll probably have pit stops, and you can pits. It's a great challenge to tell all of the stories and not miss any of the action. storytelling.

Here's a play-by-play of the action during NBC's Sept. 30 NASCAR broadcast some of the stories Wells and his team culled from at Kansas Speedway:

### Lap 88 of 267

frequently referred to as the professor," uses the former Winston Cup driver Benny Parsons,



term Those\* to describe a incident a heek of a save.\*
ear's handling, Wells immedately takes viewers into "And Tim not sure how Mike
the Virtual Garage to IllusWallace had presence of kicks out and you go straight for the wall. Using the bank [of the track], you're trying to catch the drives through a corner on the inside of the track when trate the point. Inside the animated world created by Sportvision artists, a CG car its back end begins to wiggle. Parsons elaborates in voiceover: "The back end

separate truck in the broad-cast compound operated by feeds are coming from a era in Dale Earnhardt Jr.'s car, which was right behind the two cars in 13th place at the time. Wally Dallenbach, NBC's other analyst and of the garage and back to racetrace, as if on cue, Mark Martin's #6 Ford gets loose side. Wallace dodges Martin's car and Martin on the inside of the track with Mike Wallace's #7 car right next to him on the outavoids the wall, dropping from 11th place to 18th in the process. After a series of wide-angle replays, Wells calls for a replay of the incialso a former Cup driver, adds his perspective on the new angle, pronouncing the dent from the onboard cam-After Wells takes us out

mind enough to know that Mark was in trouble. Normally that would be a crash that would take both cars

### Lap 138

when he blows his engine and is suddenly out of the race. Several laps later, United States. During a subsequent caution period. Evernham's comments play NBC/TNT pit reporters, does an interview from the big of a deal in the big picture, and mentions the Sept. Evernham, the owner of Elliott's #9 Dodge. Evern-ham expresses disappoint-11 terrorist attacks on the terview appears on two Jumbotron screens in the his first Winston Cup win in eight years, has led 33 garage area with Ray ment, but says it's not that over the racetrack's PA system while video of the ininfield. The Jumborron Bill Elliott, looking for laps and is running out front Matt Yocum, one of four

a company called Screen- son is the volleyball charac-Works.

Works. Juntor said he got lamp! Juntor said he got lonely during the Southern As a wide angle follows
Earnhardt Jr. (often referred to simply as Junior)
forth the field trunning comfortably under a green flag.
Wells goes to a feature piece

Inside the main broadcast truck, producer Sam Flood (center) and director Mike Wells (far right) mined the various camera graphics, and audio sources to create a cohesive program.

son, Wells Jumps to a still shot of a volleyball strapped in Junior's car with a red handprint on it and a mohawk hairdo. As Wells degree camera pans down to reveal Wilson once again calls for the live onboard accompanying Earnhardt. The camera is controlled by (Continued on page 96) shot in Junior's car, the 360once again this week." Weber confirms. "If you're not familiar with the story, Wiltalks of Earnhardt's win the previous week in Dover. Del., and an unusual pasby pit reporter and pre-race host Bill Weber. Weber senger in Earnhardt's #8 "Yes, Wilson is aboard

Chevrolet.

500 (Sept. 2 in Darlington, S.C.), so his crew put someone in there to keep him As Weber mentions Wil-







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(Continued from page 42) a joystick in the in-car cam-

ments as the in-car camera

Lap 185

era truck.

action. With oil covering Earnhardt's windshield and quickly to the right to avoid Johnny Benson, running Once again, Earnhardt's onboard camera catches the obstructing the camera's view, Junior moves his car Benson's car without touchin second, blows his engine right in front of Junior ing the wall.

Sportvision's Racef/x system provides the realtime One lap later, an onboard replay from inside Benson's tual Dashboard," which simulates the miles-per-hour and revolutions-perminute gauges in Benson's car includes a lower-third graphic know as a "Virdash as his engine blows. telemetry information.

#### Lap 230

While following action at the front of the pack.
Wells quickly calls for a shot of Earnhardt's #8 car. rest on the track. He then immediately calls for the audio from Earnhardt's in turn 2 and is leaving a trail of fire as it slows to a ior?" a voice asks, but re-ceives no audible reply. There are some tense mocrew: "You all right, Junwhich has just hit the wall

respected drivers in motorsports, was killed in car view of a crash until he knows for sure that the shows Junior sttting in his one of the most adored and a crash. With this memory still fresh in his mind, Wells won't call for the indriver's seat motionless. ther, Dale Earnhardt Sr.,

utes later, after Earnhardt is safely out of the car, Wells calls for the shot of the crash leaning in the driver's side window and Junior removes Soon, a member of the his steering wheel and throws it onto the dash in track's safety crew is shown frustration. Several mindriver is uninjured.

1. Because the wreck hap-

caused by damage to the fuel pump. Wells calls for the Virtual Garage graphic of a fuel pump fire. The ani-With the impact, the car's frame is jarred, causing one of the frame rails to break Visibly relieved, Parsons and Dallenbach speculate shows the chain reaction the two lines connected to the fuel pump. Parsons says mation depicts a car crashthat occurs under the hood.

This sent Jarrett's car into a 180-degree spin and into

that the fire coming from the car must have been ing into a wall and then this causes gasoline to spray onto the car's red-hot head-

Lap 360 in the opposite direction and settles in the ter-panel first. After the the outside wall. left quarimpact, Jarrett's car does a middle of the track.

After several wide angles of the crash, Wells calls for the onboard view from Labonte's car. He then calls for the onboard view from Jarrett's car after it had come to rest. There appears to be no movement in the 88 car.

As a crew of rescue workers try to extricate Jarrett from his mangled car, Wells calls for Jarrett's onboard view of the crash. The video ately lost upon impact, and is regained after the car has stopped moving. But Wells doesn't stay on the shot from transmission is immedi-

inside the car very long.

After a couple of commercial breaks, Jarrett is finally shown walking gin-

A few laps later, pole-sitter Jason Leffler hits the gerly to an ambulance on the track. Once again, NBC's three announcers are clearly relieved at the sight. ers, which results in a fire A couple of laps later in what caused him to hit the

much like the one under

Earnhardt's car

the garage. Junior explains

talked about his thought process with regard to the Earnhardt and Jarrett crashes: "We had onboards causing the 13th and final caution flag of the day. Dur-Jarrett to a nearby hospital as a precautionary measure. He was later released. After the race, Wells ing the race stoppage, a helicopter is shown flying of both of those crashes, but wall on the frontstretch get into the pits to get it fixed]. When asked how he felt, Junior replies: "That was a helluva hit, but I took Lap 248
In the day's scariest moment, Dale Jarrett's #88 car wall: 'I think we blew a right-front tire. I felt the vibration a couple of laps [before the crash], 1 just needed another half lap [to hits the outside wall in turn

it in stride just like always."

less we know they're all right. I don't think it's our responsibility to show famthat type of information. The crash is certainly part of racing, but it just depends on the situation as to how some amazing crashes whereaguy will flip a dozen times and then get up and walk away. You can't show that enough. But you have there's no way we show that we cover it. There have been to the viewers at home un members, or even fans to be careful." ÷ pened toward the middle of the pack, Wells doesn't get the live shot. Replays show Jarrett was the outside car Thinking he was clear of Bobby Labonte's #18 car immediately to his left, Jarrett moved down the track, clipping the right front fender of the 18 car.

with two cars to the inside.

from the onboard camera.

#### 261

leader in the season-long Winston Cup points race, is in front of the pack. He With six laps to go in a car lengths ahead of rookie Ryan Newman. As Gordon stand, Parsons radios Newman, who is still in his ous driver as he prepares to get out of his car and accept the trophy for winning the inaugural Winston Cup race race that has taken nearly four hours, Jeff Gordon, the celebrates his victory by doing donuts in the grass near the 75,000-seat grandcar on pit road. As Parsons congratulates Newman for his impressive second-place finish; Gordon enters victory lane and Wells calls for an in-car shot of the victorisprints to the finish, a few

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